TASK II: PREPARATION OF DEVELOPMENT OPTIONS DISCUSSION DOCUMENT

Prepared for:

OFFICE OF STATE PLANNING STATE OF NEW HAMPSHIRE 2 1/2 BEACON STREET CONCORD, NEW HAMPSHIRE 03301

Prepared by:

TEMPLE, BARKER & SLOANE, INC.
33 HAYDEN AVENUE
LEXINGTON, MASSACHUSETTS 02173

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I. INTRODUCTION

- The objective of the Task II analysis was to prepare six or more development options for the PPR. From this list of potential options, three are to be selected for detailed evaluation.
- The 13 options prepared by the consultants were based on the <u>Task I:</u>
 Assessment report and input from interviews conducted by the consultants.
- This document presents a discussion of possible goals and objectives for waterfront development and the potential development options prepared by the consultants.
- The intent of this document is to provide the necessary information for the Advisory Committee to reach a consensus on what the goal(s) for waterfront development of the PPR are and to select for detailed evaluation those options that best support the stated goal(s).
- Economic information relating to the costs and benefits of various options represent order of magnitude estimates based on information in existing documents, preliminary engineering estimates developed by the consultants, and estimates of the potential market demand for each activity associated with a development option. The benefit data is intended to provide the Advisory Committee with an indication of the potential benefits to be realized rather than a definitive statement of existing market demand.

II. GOALS FOR WATERFRONT DEVELOPMENT

A. INTRODUCTION

- If the study objectives are to be achieved, the Advisory Committee must explicitly state the goal(s) to be achieved in formulating a plan for developing the PPR.
- Absent of goal(s), the development plan lacks direction, becomes disjointed, and potentially conflicts both with existing activities and with itself. Therefore, the first step in the selection of development options for which detailed evaluations will be performed in Task III is the selection of development goal(s).

B. POTENTIAL GOAL(S) OF WATERFRONT DEVELOPMENT

- A goal is defined as the central charter or mission of an organization or an activity. Within the context of developing the PPR, it should be the reason(s) why development is pursued.
- The development goal(s) in the broadest sense can be to preserve or increase existing water-dependent, water-related, or water-enhanced activities--or to provide for new forms of these activities.

Goals for Waterfront Development Potential Goals for Waterfront Development

- Existing water-dependent activities within the PPR include:
 - --Industrial
 - --Commercial marine (cargo vessels, tall ships, Navy ships)
 - --Commercial fishing (state fish pier, private fish piers)
 - -- Recreational fishing (party boats)
 - --Tour boats
 - --Recreational boating (moorings and marinas)
 - --Passive recreation (parks)
- Goals for preserving or increasing existing waterfront activities could include:
 - --Preserve or expand existing land designated for industrial use
 - --Increase commercial marine cargo activities
 - -- Increase commercial marine non-cargo activities (commercial fishing, tour boats, etc.)
 - --Fulfill existing demand for water-dependent recreational activities
 - --Preserve or increase public access to waterfront
 - --Maximize economic return to the local community
 - -- Increase water-related tourist activities

Goals for Waterfront Development
Potential Goals for Waterfront Development

- Goals for providing new activities would be oriented to the specific activity. For example, the goal supporting cruise ship activity might be "to provide facilities and support for attracting a seasonal cruise ship service to the PPR."
- The Advisory Committee, with the aid of consultants must establish a consensus on the goal(s) for developing the PPR before options can be considered.

III. DEVELOPMENT OPTIONS

- The consultants have prepared 13 development options for consideration by the Advisory Committee. The options and their estimated impacts are contained in Exhibits 1 through 9.
- The options are based on the Task I: Assessment analyses and interviews.
- The options are intended to provide a basis for discussion and selection of the three options for which detailed evaluations will be conducted.
- Developments of estimated costs in most instances required the selection of a specific site--State Pier, for example. However, since most options could occur at one or more existing sites, the Committee should not feel constrained by the consultants' site selection. The important issue is the activity and whether or not it fulfills the consensus development goals.

TASK II: DEVELOPMENT OPTIONS

COMMERCIAL MARINE

	Costs	Benefits				
Development Options	Public/Private	Public/Private	Environmental	Socioeconomic	Management	Engineering Considerations
Create a dredge apoil containment area	\$4,000,000-\$6,000,000 ⁰ (P)	\$u ^b (P)	Typical impacts of near- shore marine construction ^C Displacement of environ- mental wetlands	Provides substantial acreage for development	State directly or through a lessee	Access to Market Street and to existing port authority facility Alternative uses
Including a 500 foot multi purpose berth	\$7,000,000-\$8,000,000 ⁸ (P)	\$25,000 ^d (P)	Typical impacts of near- shore marine construction ^C Displacement of environ- mental wetlands	Provides substantial acreage for development	State directly or through a lessee	Access to Market Street and to existing port authority facility Alternative uses

P = Public.

⁸Cost depends upon type of construction and intended use.

^bNo benefits pending development of the containment area for one or more water dependent uses. An alternative benefit of the containment area would be its sale value of an estimated eight acres of land & \$1,000,000 per acre.

CTemporary increase in turbidity of water, disruption of benthic organisms, pile driving noises, etc.

Minimum revenue realized from tourboat lease of one acre parcel & \$0.50/square foot and \$3,000 in dockage and wharfage fees from four calls by a coastal cruise ship.

Source: 185.

TASK II: DEVELOPMENT OPTIONS

COMMERCIAL MARINE

	Costs	Benefite		Impacts		
Development Options	Public/Private	Public/Private	Environmental	Socioeconomic	Management	Engineering Considerations
Adding a Ro/Ro capebility	\$2,800.000 ⁸ (P)	\$22,000 ^t (P)-\$36,400 ^r (P)	Typical impacts of near- shore marine construction Increased truck traffic on Market Street	Potential increase in ocean services and traffic to NH	State: Directly or through a lessee	Location of alignment alternatives Construction alternatives Accommodate stern and side ramp vessels

P = Public.

ancludes pile supported deck with access bridge to land, 44,840 square feet at \$62.50 per square foot.

Minimum revenue realized from tourboat lease of 1 acre parcel at \$0.50/square foot, assuming no Ro/Ro service is attracted to Portsmouth.

Chotential dockage/wharfage revenues to Port Authority if a weekly Ro/Ro service loading/discharging 60 trailers per week were attracted to Portsmouth. The market potential for such service has not been determined.

Source: 185.

TASK II: DEVELOPMENT OPTIONS

COMMERCIAL MARINE

	Coats	Benefits	ļ	Impacts	·	\	
Development Options	Public/Private	Public/Private	Environmental '	Socioeconomic	Management	Engineering Considerations	
Building a second barth	\$8,600,000 ⁸ (P)	\$25,000 ^b (P)	Typical impacts of near- shore marine construction Displacement of environ- mental habitats Oredging, increased truck traffic on Market Street	Potential increase in ocean sarvices and traffic to NH	State: Directly or through a leasee	Location of alignment alternatives Construction alternatives	
Including RoRo capability	\$10,500,000 ⁸ (P)	\$25,000 ^b (P)-\$36,400 ^c (P)	Typical impacts of near- shore marine construction Displacement of environ- mental habitats Oredging, increased truck traffic on Market Street	Potential increase in ocean services and traffic to NH	State: Directly or through a lessee	Location of alignment alternatives Construction alternatives	

P = Public.

^aAssumes 600 foot berth at \$14,330/lineal foot including provision for some backup land. Addition of Ro/Ro capability adds an estimated \$1.9 million to cost.

^bMinimum revenue realized from tourboat lease of one acre parcel at \$0.50/square foot and \$3,000 in dockage and wharfage fees from four calls by a coastal cruise ship.

^cPotential dockage/wharfage revenues to Port Authority if a weekly Ro/Ro service loading/discharging 60 trailers per week was attracted to Portsmouth. The market potential for such service has not been determined.

Source: IBS.

TASK II: DEVELOPMENT OPTIONS

MARINE COMMERCIAL

	Costs	Benefits	Impacts			
Development Options	Public/Private	Public/Private	Environmental	Sociaeconomic	Management	Engineering Considerations
Sale of Port Authority facility	No direct expenditures required	\$12,000,000 ^a (P)	None	Loss of international gateway for NH commerce Reduction in state con- trolled waterfront property	Potentially requires legislative action	None

P = Public.

⁸Sale of an estimated twelve acres at \$1,000,000 per acre.

Source: TBS.

TASK II: DEVELOPMENT OPTIONS

COMMERCIAL MARINE -- NON CARGO RELATED

	Costs	Benefits	Impacts			-
Development Option	Public/Private	Public/Private	Environmental -	Socioeconomic	Management	Engineering Consideration
Provide for combined party boat and lobster boat facility at Pierce Island	\$330,000 [@] (P)	\$108,000 ^b (R) \$32,000 ^c (P)	Typical impacts of near- shore marine construction Increased public/pedes- trian traffic and parking on Pierce Island	Increase waterborne recreational activity Increase commercial fishing activity Competition with private facilities	State: Directly or via leasee	None

R = Private.

P = Public.

a 100' x 40' dock a \$50/ft² berth; dredging of 3,000 cubic yards a \$20/yard; dockside support facilities a \$70,000.

Duross revenues to private party boat operator from 30 participants, 2 trips per day, \$15 per person and 120 days.

Cfrom debt service returned to State based on amortization of \$330,000 over 30 years at 10 percent interest. Revenues from lobstering, which would most likely be based on a percentage of the ad valorem value of the landed catch, are not included.

Exhibit 6

TASK II: DEVELOPMENT OPTIONS

COMMERCIAL MARINE -- NON CARGO

	Costs	Benefits/Year			Engineering	
Development Option	Public/Private	Public/Private	Environmental	Sociaeconomic	Menagement	Consideration
Provide for additional tourboat activity at Port Authority Pier	\$650,000 ⁸ (P)	\$142,500 ^C (R) \$22,000 ^b (<i>P</i>)	Typical impacts of near- shore marine construction Increased traffic, public/ pedestrian traffic Parking for care	Economic impact of pas- senger expenditures on local economy	State: Directly or through lessee Potential conflict with construction of second berth	None
Provide for combination cruise/tour boat activity	\$1,360,000 ^d (P)	\$142,500 [©] (R) \$25,000 [©] (P)	Same as above	Same as above	Same as above	Same as above

P = Public.

Note: These options are in addition to Viking Cruises' Phase 1 development of Barker Wharf. Source: TBS.

 $^{^{\}rm a}$ 300 linear fact bulkhead $^{\rm a}$ \$1,900/lineal foot; dredging 3,000 cubic yards $^{\rm a}$ \$20/cubic yards; \$20,000 contingencies. $^{\rm b}$ Lease revenues from one acre.

CAnnuel gross revenue projections based on 7,500 passengers per year and \$19 per passenger.

⁴⁵⁰⁰ lineal foot bulkhead \$ \$2,300/lineal foot; dredging 8,000 cubic yards \$ \$20/cubic yards; \$50,000 contingencies.

Same as footnote b plus \$3,000 in dockage/wharfage fees from 4 calls per annum by cosstal cruise ship. The market potential for such service has not been determined.

TASK II: DEVELOPMENT OPTIONS

RECREATIONAL BOATING

	Costs	Benefits		Impacts	·	Engineering
Development Option	. Public/Private	Public/Private	Environmental	Socioeconomic	Management	Consideration
Expand Pierce Island bost ramp facility (30' x 40' addition and parking for 24 cars and trailers)	\$50,000 ^a (P)	\$3,600/yr ^b (P) (public use) \$4,000/yr ^c (P) (private use)	Oil apills Increased automobile traffic Increased engine noise	Increased water access for recreational use	City	Nane

^aIncludes clearing, grabbing, fill; parking lot grading; driveway/parking paving.

^bPublic use of ramp \$2/boat x 120 days @ 50% utilization for 30 boats.

^cHarina owner use of public ramp \$5/boat x 400 boats/yr, 2 times/yr.

TASK II: DEVELOPMENT OPTIONS

RECREATIONAL BOATING

	Costs	Benefits .	/	Impacts		Engineering
Development Option	Public/Private	Public/Private	Environment al	Socioeconomic	Management.	Consideration
Provide for recreational boating activities at Pierce Island: 150 slip marina with support facilities	\$1,590,000 ^e (P)	\$115,000 ^b (R) \$101,000 ^c (P)	Typical impacts of near- shore marine construction Additional river traffic Risk of oil spills	Increase in retail sales to community and marine businesses Significant increases in traffic and parking to/ from Pierce Island	State: Through lessee	None

R = Private.

P = Public.

⁸150 slips @ estimated \$7,000/slip; \$280,000 for shoreside facilities; \$260,000 for breakwaters and beach protection.

^bGross revenues of \$91,000 from 140 slips @ \$650 each for seasonal rental and 10 transient ships for \$24,000.

^cAmortization of State investment based on 30 years at 10 percent per year.

TASK II: DEVELOPMENT OPTIONS

RECREATIONAL

	Costs	8enefits		Engineering		
Development Options	Public/Private	Public/Private	Environmental	Socioeconomic	Management	Consideration
Create public walkway	\$900,000 ⁸ (P)	N.A.	Typical impacts of near- shore marine construction ⁸	Increased waterfront access by public	City	None
	·		Increased pedestrian traffic			
Create public walkway with marina	\$1,250,000 ^b (P)	\$24,000/yr ^C (seasonal) P/R \$18,000/yr ^d (transient) P/R	Provide pumpout station Risk of oil spills	Increased waterfront access by public for recreational use	City or State: Directly or through lesses	None
			Engine noise	Parking for 40 cars		

N.A. = Not applicable.

** \$50/ft² x 600' x 30'.

b\$7,000/slip including sewer/water x 50 slips in addition to cost of walkway.

c40 slips @ \$600/sesson.

d10 transient slips, 50% occupancy, \$30/night, 120 days. *Temporary increased turbidity, disruption of benthic organisms, pile driving noise, etc.

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